

## **Mineralogical and geochemical characteristics of oil shale Domanic type on the spectra of electron paramagnetic resonance**

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### **Abstract**

The method of electron paramagnetic resonance (EPR) was used to identify the characteristics of the material composition and condition of the organic matter of rocks along the borehole domanic deposits. EPR spectra of impurity ions  $Mn^{2+}$ , sulfate ion radical  $SO_3^-$  and  $SO_2^-$  structure of calcite, E'-center quartz structure, and also vanadyl  $VO_2^+$  and free radical Corg organic substances were identified in 11 specimens Domanic rock deposits. Diagrams of the EPR signals were built along the borehole.

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### **Keywords**

Carbonates, Domanic deposits, Electron paramagnetic resonance (EPR), Organic matter, Quartz